

Active Recombinant Human ITGA4&ITGB1 protein, His-tagged

Cat. No. ITGA4&ITGB1-1571H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGA4&ITGB1 protein(Tyr34-Thr977(ITGA4)&Gln21-Asp728(ITGB1)), fused with His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	34-977;21-728 a.a.
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5.
Bio-activity	Immobilized Natalizumab at 1 µg/mL (100 µL/well) can bind Human ITGA4&ITGB1 Heterodimer Protein, His Tag&Tag Free with a linear range of 1-16 ng/mL.
Molecular Mass	Human ITGA4&ITGB1 Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGA4 and ITGB1, has a calculated MW of 111.4 kDa (ITGA4) and 83.7 kDa (ITGB1). Subunit ITGA4 is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and subunit ITGB1 contains no tag but a basic tail at the C-terminus. The ITGA4 subunit is composed of a heavy chain (Tyr 34 - Arg 591, calculated MW 61.1 kDa) and a light chain (Ser 592 - Thr 977, calculated MW 50.1 kDa). Consequently ITGA4 migrates as 60-70 kDa, 80-85 kDa and 135-150 kDa, and ITGB1 as 100-133 kDa respectively under reducing (R) condition due to cleavage and glycosylation.
Proteinlength	Tyr34-Thr977(ITGA4)&Gln21-Asp728(ITGB1)

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Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	For long term, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	ITGA4 integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor) [Homo sapiens]
Official Symbol	ITGA4
Synonyms	ITGA4; integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor); CD49D; integrin alpha-4; CD49d; 269C wild type; integrin alpha 4; integrin alpha-IV; VLA-4 subunit alpha; integrin alpha-4 subunit; CD49 antigen-like family member D; antigen CD49D, alpha-4 subunit of VLA-4 receptor; very late activation protein 4 receptor, alpha 4 subunit; IA4; MGC90518;
Gene ID	3676
mRNA Refseq	NM_000885
Protein Refseq	NP_000876

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MIM	192975
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UniProt ID	P13612
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